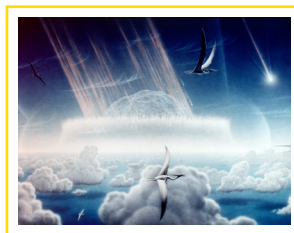




## HIGHLIGHTS AT A GLANCE

- 08:30 – R's role in Earth sciences (IE3.6: PICO spot A); Planetary geomorphology (GM1.4/PS9.5: Room 1.85); Outer planets, satellites and rings (PS3.1: Room N2); Earthquake source processes (SM2.1/EMRP4.12: Room M1); Mass extinctions and catastrophic environmental changes (SSP2.4/GMPV1.5: Room N1); European environmental policies; (SSS1.6/AS4.51/BG9.13/CL3.06/HS11.43/NH9.22: Room -2.20); Folding and fracturing of rocks (TS1.3: Room D3)
- 10:30 – Monitoring the Sustainable Development Goals with remote sensing archives (IE3.4/ESSI2.12: PICO spot A)
- 13:30 – Studying the climate of the last two millennia (CL1.03: Room F2); Hydropower and other renewable sources of energy (HS5.8/ERE3.8: Room 2.44)
- 15:30 – Great Debate: Great extinctions (GDB5: Room E1); Risks from a changing cryosphere (CR3.4/NH8.6: Room 0.49)
- All day – Medal lectures (various rooms: see right); Short courses & ECS events (various rooms: see right); Meet EGU (EGU Booth); Geo Cinema (Room 0.90)

EGU Today helps you keep up with the many activities at the General Assembly by highlighting sessions and events from the programme. If you have comments or questions, email Bárbara Ferreira at [media@egu.eu](mailto:media@egu.eu). The newsletter is also available online at [egu2017.eu/egu\\_today.html](http://egu2017.eu/egu_today.html).



Artist's impression of the Chicxulub impact (Credit: Donald E. Davis)

## Great Debate: Great extinctions

What really caused the demise of the dinosaurs? All of the major extinctions that punctuate Earth's history are associated with short periods of intense volcanism and only the end-Cretaceous extinction is also coincident with meteorite impact. The causes of all mass extinctions will be debated by a panel of experts.

**GDB5: 15:30–17:00 / Room E1**

## Interdisciplinary events

These events tackle a common theme through an interdisciplinary combination of approaches, aiming to foster cross-division links and collaborations. Today's programme features two:

- R's deliberate role in Earth sciences (IE3.6/GM1.8/AS4.50/BG9.65/CL5.26/HS11.23/SSS11.11: 08:30–10:00 / PICO spot A)
- Monitoring the Sustainable Development Goals with the huge remote sensing archives (IE3.4/ESSI2.12: 10:30–12:00 / PICO spot A)

## Today's medal lectures

- Arne Richter Award for Outstanding ECSs Lecture by Yadong Sun (ML7/SSP: 10:30–11:00 / Room N1)
- Christiaan Huygens Medal Lecture by Riccardo Lanari (ML11/GI: 10:30–11:30 / Room L2)
- Hannes Alfvén Medal Lecture by Eric R. Priest (ML13/ST: 11:00–12:00 / Room L3)
- Jean Baptiste Lamarck Medal Lecture by Paul B. Wignall (ML15/SSP: 11:00–12:00 / Room N1)
- GMPV Division Outstanding ECS Award Lecture by Pierre Lanari (ML40/GMPV: 11:45–12:15 / Room 1.61)
- Jean Dominique Cassini Medal Lecture by Luciano Iess (ML4/PS/ST: 12:15–13:15 / Room E1)
- Sergey Soloviev Medal Lecture by Augusto Neri (ML27/NH: 13:30–14:30 / Room L6)
- EMRP Division Outstanding ECS Award Lecture by Marie Violay (ML35/EMRP: 13:30–13:45 / Room 0.31)
- HS Division Outstanding ECS Award Lecture by Anne F. van Loon (ML41/HS: 13:30–14:00 / Room C)
- NH Division Outstanding ECS Award Lecture by James E. Daniell (ML42/NH: 13:30–13:45 / Room 2.31)
- Vladimir Ivanovich Vernadsky Medal Lecture by Jack J. Middelburg (ML31/BG: 14:00–15:00 / Room D1)
- CL Division Outstanding ECS Award Lecture by Francesco Muschitiello (ML33/CL: 14:45–15:00 / Room 0.14)
- Fridtjof Nansen Medal Lecture by Lynne D. Talley (ML12/OS: 16:00–17:00 / Room D2)
- Stephan Mueller Medal Lecture by Cees W. Passchier (ML28/TS: 16:00–17:00 / Room D3)
- John Dalton Medal Lecture by Dani Or (ML16/HS: 19:00–20:00 / Room C)
- Louis Néel Medal Lecture by Christopher J. Spiers (ML20/EMRP: 19:00–20:00 / Room D3)
- Philippe Duchaufour Medal Lecture by Peter Smith (ML23/SSS: 19:00–20:00 / Room K2)
- Robert Wilhelm Bunsen Medal Lecture by D. Graham Pearson (ML26/GMPV: 19:00–20:00 / Room K1)

## Short courses & early career scientist events

- How to write a research grant (SC15: 08:30–10:00 / Room -2.91)
- What is science policy and how can scientists communicate with policy officials? (SC28: 10:30–12:00 / Room -2.91)
- How to write a successful ERC Grant proposal, (SC5: 13:30–15:00 / Room -2.91)
- Academia is not the only route: exploring alternative career options for Earth scientists (SC14: 15:30–17:00 / Room -2.91)
- **EGU Medallists and ECS Reception (FAN1: 19:00–20:30 / Room F2)**

## Planetary geomorphology

This session aims to give a different perspective on planetary science by bringing together geomorphologists from terrestrial sciences with those who spend more time on other planets.

**GM1.4/PS9.5: Orals / 08:30–10:00 / Room 1.85, Posters / Attend., 17:30–19:00 / Hall X2**

## Meet EGU at the EGU Booth

- Division President of Climate: Past, Present, Future / Galileo Conferences Coordinator (Thomas Blunier), 10:00–10:30
- ECS Representative of Energy, Resources and the Environment (Luke Griffiths), 10:00–10:30
- Division Presidents and the ECS Representative for Energy, Resources & the Environment (Chris Juhlin, Sonja Martens and Luke Griffiths), 10:30–11:15
- Early Career Scientists (ECS) Representatives (Lena Noack, Roelof Rietbroek) & Laura Roberts Arta, 11:15–12:45
- Division President and the ECS Representative of Seismology (P. Martin Mai, Laura Parisi), 12:00–13:30
- ECS Representative of Solar-Terrestrial Sciences (Jone P. Reistad), 13:30–14:15
- Division Presidents and the ECS Representative of Planetary & Solar System Sciences (Özgür Karatekin, Stephanie C. Werner, Maike Neuland), 13:30–14:15
- Division President of Soil System Sciences (Saskia Keesstra), 14:15–15:00
- Executive editors of Natural Hazards and Earth System Sciences (Heidi Kreibich, Bruce D. Malamud, Uwe Ulbrich), 15:00–15:30
- Co-editor-in-chief of The Cryosphere (Thomas Mölg), 15:30–17:00
- Division President and the ECS Representative of Earth & Space Science Informatics (Helen Graves, Jennifer Roelens), 15:30–17:00

## The Assembly Online



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## Mass extinctions, volcanism, impacts, and catastrophic environmental changes

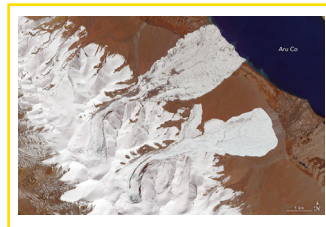
This session will investigate how massive volcanism and meteorite impacts may have caused mass extinctions and global environmental crises. It brings together scientists across the geological, geophysical, and biological disciplines to present new and exciting research. It is co-organised by the International Association of Sedimentologists and the Society for Sedimentary Geology and it includes the Arne Richter Award for Outstanding ECSs Lecture by Yadong Sun.

**SSP.2.4/GMPV1.5: Orals / 08:30–12:00 / 13:30–15:00 / Room N1  
Posters / Attendance 17:30–19:00 / Hall X1**

### Studying the climate of the last two millennia

This session, co-sponsored by the PAGES 2k project, highlights integrative palaeoclimate research on the climate of the past 2000 years.

**CL1.03: Orals / 13:30–17:00 / Room F2  
Posters / Attendance 17:30–19:00 / Hall X5**



Twin avalanches in Tibet due to glacier collapses. Credit: NASA/USGS/ESA/ASTER

### Folding and fracturing of rocks

A celebration of research into the Folding and Fracturing of Rocks to mark the 50<sup>th</sup> anniversary of the publication of the seminal text book by J.G. Ramsay. It will feature contributions on the brittle and ductile deformation of rocks and their implications for crustal processes.

**TS1.3: Orals / 08:30–10:00 / Room D3  
Posters / Attendance 17:30–19:00 / Hall X2**

### Outer planets, icy satellites and rings

This session features papers about the outer planets and Pluto systems, including their satellites with atmospheres or not, with special emphasis on observations (both from space and from the ground), modelling, and theoretical interpretation.

**PS3.1: Orals / 08:30–12:15 / Room N2  
/ 13:30–15:00 / Room L3  
Posters / Attendance 17:30–19:00 / Hall X4**

### Earthquake source processes

This session aims to further the understanding of source processes – from slow slip events and rupture dynamics to wave propagation and ground motion analysis – and earthquake scaling relationships over a wide range of magnitudes.

**SM2.1/EMRP4.12:  
Orals / 08:30–12:00 / 13:30–15:00 / Room M1  
Posters / Attendance 17:30–19:00 / Hall X3**

### Risks from a changing cryosphere

Around the world, glaciers are retreating and thinning, snow cover and duration is generally reduced, permafrost is thawing, and ice sheets are changing. This session addresses risks associated with a changing cryosphere and includes an invited talk by Adrien Gilbert (U. Oslo) on gigantic twin glacier collapses in Tibet.

**CR3.4/NH8.6: Orals / 15:30–17:00 / Room 0.49  
Posters / Attendance 17:30–19:00 / Hall X5**

### Hydropower and other renewable sources of energy for a sustainable future

Hydropower is a mature and cost-competitive renewable energy source, which helps stabilise fluctuations between energy demand and supply. Contributions to this session will highlight how hydrology can contribute to address urgent challenges in this field.

**HS5.8/ERE3.8: Orals / 13:30–15:00 / Room 2.44  
Posters / Attendance 17:30–19:00 / Hall A**

### European environmental policies and sustainability

This session will feature a panel with 5–10 keynote speakers from soil science, agriculture, land and relevant policy makers. They will discuss the latest developments of soil-related policies and how they can contribute to sustainability.

**SSS1.6/AS4.51/BG9.13/CL3.06/HS11.43/NH9.22:  
Orals / 08:30–10:15 / Room -2.20  
Posters / Attendance 17:30–19:00 / Hall X1**

## What's on tomorrow

- Vegetation-climate interactions across time scales (US1/AS4.52/BG9.67/CL4.20/SSS0.4: 08:30–12:00 / Room E2)
- EGU Award Ceremony (US0: 17:30–20:00 / Room E1)
- Should early career scientists be judged by their publication record? A set of group debates (GDB6: 19:00–20:30 / Room G1)